Anas Tariq

MongoDB

Lab 1

**Queries of Task 1**

**1.**

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| --- |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5aa"**), |
| order: **'o1'**, |
| year: 2020, |
| paid: **'Y'**, |
| cost: { price: 30, currency: **'NOK'** }, |
| items: [ { product: **'p1'**, colours: [ **'blue'**, **'black'** ], quantity: 15 } ], |
| delivery\_days: 5 } |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5ab"**), |
| order: **'o2'**, |
| year: 2020, |
| paid: **'Y'**, |
| cost: { price: 13, currency: **'EUR'** }, |
| items: |
| [ { product: **'p2'**, colours: [ **'white'** ], quantity: 4 }, |
| { product: **'p3'**, colours: [ **'white'**, **'black'** ], quantity: 1 } ], |
| delivery\_days: 4 } |

|  |
| --- |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5ac"**), |
| order: **'o3'**, |
| year: 2018, |
| paid: **'N'**, |
| cost: { price: 33, currency: **'EUR'** }, |
| items: [ { product: **'p3'**, colours: [ **'blue'**, **'black'** ], quantity: 4 } ], |
| delivery\_days: 4 } |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5ad"**), |
| order: **'o4'**, |
| year: 2017, |
| paid: **'Y'**, |
| cost: { price: 17, currency: **'NOK'** }, |
| items: |
| [ { product: **'p2'**, colours: [ **'pink'**, **'black'** ], quantity: 14 }, |
| { product: **'p4'**, colours: [ **'white'** ], quantity: 1 } ], |
| delivery\_days: 2 } |

|  |
| --- |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5ae"**), |
| order: **'o5'**, |
| year: 2020, |
| paid: **'Y'**, |
| cost: { price: 19, currency: **'NOK'** }, |
| items: [ { product: **'p1'**, quantity: 15 } ], |
| delivery\_days: 3 } |

**2.**: "Y"})

|  |
| --- |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5aa"**), |
| order: **'o1'**, |
| year: 2020, |
| paid: **'Y'**, |
| cost: { price: 30, currency: **'NOK'** }, |
| items: [ { product: **'p1'**, colours: [ **'blue'**, **'black'** ], quantity: 15 } ], |
| delivery\_days: 5 } |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5ab"**), |
| order: **'o2'**, |
| year: 2020, |
| paid: **'Y'**, |
| cost: { price: 13, currency: **'EUR'** }, |
| items: |
| [ { product: **'p2'**, colours: [ **'white'** ], quantity: 4 }, |
| { product: **'p3'**, colours: [ **'white'**, **'black'** ], quantity: 1 } ], |
| delivery\_days: 4 } |

|  |
| --- |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5ad"**), |
| order: **'o4'**, |
| year: 2017, |
| paid: **'Y'**, |
| cost: { price: 17, currency: **'NOK'** }, |
| items: |
| [ { product: **'p2'**, colours: [ **'pink'**, **'black'** ], quantity: 14 }, |
| { product: **'p4'**, colours: [ **'white'** ], quantity: 1 } ], |
| delivery\_days: 2 } |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5ae"**), |
| order: **'o5'**, |
| year: 2020, |
| paid: **'Y'**, |
| cost: { price: 19, currency: **'NOK'** }, |
| items: [ { product: **'p1'**, quantity: 15 } ], |
| delivery\_days: 3 } |

**3.** "})

|  |
| --- |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5aa"**), |
| order: **'o1'**, |
| year: 2020, |
| paid: **'Y'**, |
| cost: { price: 30, currency: **'NOK'** }, |
| items: [ { product: **'p1'**, colours: [ **'blue'**, **'black'** ], quantity: 15 } ], |
| delivery\_days: 5 } |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5ad"**), |
| order: **'o4'**, |
| year: 2017, |
| paid: **'Y'**, |
| cost: { price: 17, currency: **'NOK'** }, |
| items: |
| [ { product: **'p2'**, colours: [ **'pink'**, **'black'** ], quantity: 14 }, |
| { product: **'p4'**, colours: [ **'white'** ], quantity: 1 } ], |
| delivery\_days: 2 } |

|  |
| --- |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5ae"**), |
| order: **'o5'**, |
| year: 2020, |
| paid: **'Y'**, |
| cost: { price: 19, currency: **'NOK'** }, |
| items: [ { product: **'p1'**, quantity: 15 } ], |
| delivery\_days: 3 } |

**4.**items.product":"p2"})

|  |
| --- |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5ab"**), |
| order: **'o2'**, |
| year: 2020, |
| paid: **'Y'**, |
| cost: { price: 13, currency: **'EUR'** }, |
| items: |
| [ { product: **'p2'**, colours: [ **'white'** ], quantity: 4 }, |
| { product: **'p3'**, colours: [ **'white'**, **'black'** ], quantity: 1 } ], |
| delivery\_days: 4 } |
| { \_id: ObjectId(**"63b42044c30189b8cdc9e5ad"**), |
| order: **'o4'**, |
| year: 2017, |
| paid: **'Y'**, |
| cost: { price: 17, currency: **'NOK'** }, |
| items: |
| [ { product: **'p2'**, colours: [ **'pink'**, **'black'** ], quantity: 14 }, |
| { product: **'p4'**, colours: [ **'white'** ], quantity: 1 } ], |
| delivery\_days: 2 } |

**Queries of Task 2**

**1, 2.1)**

db.student.insertOne**({**

firstName**:** "Omar"**,**

lastName**:** "Ahmed"**,**

age**:** 24**,**

faculty**:** **{**name**:** "PortSaid University"**,** address**:** "Portsaid"**},**

grades**:** **[{**courseName**:** "Algo"**,** grade**:** 99**,** pass**:** true**},** **{**courseName**:** "Design Patters"**,** grade**:** 97**,** pass**:** true**},** **{**courseName**:** "C++"**,** grade**:** 99**,** pass**:** true**}],**

isFired**:** true

**})**

**2.2)**

db.student.insertMany([{

firstName: "Mohamed",

lastName: "Maher",

age: 22,

faculty: {name: "AUC", address: "Cairo"},

grades: [{courseName: "Algo", grade: 60, pass: false}, {courseName: "Design Patters", grade: 99, pass: true}, {courseName: "C#", grade: 84, pass: true}],

isFired: true

}, {

firstName: "Mohamed Negm",

lastName: "Ahmed",

age: 25,

faculty: {name: "iTi", address: "Aswan"},

grades: [{courseName: "Algo", grade: 99, pass: true}, {courseName: "Design Patters", grade: 99, pass: true}, {courseName: "C++", grade: 99, pass: true}],

isFired: false

}])

**3.1)**

db.student.find()

**3.2)**

db.student.find({firstName: "Omar"})

**3.3)**

db.student.find({isFired: true})

**3.4)**

db.student.find({firstName: "Omar"}, {firstName:1, lastName:1, isFired:1})

**4)**

db.student.updateOne({firstName: "Omar"}, {$set:{lastName: "Said"}})

**5)**

db.student.deleteMany({isFired: true})

**6)**

db.student.drop()

**7)**

db.dropDatabase()

**8)**

use facultySystemV2